



## Applications to automotive

Application	Description
Base metals	Chemical composition of all metals and alloys (Fe, Al, Zn, Mg...)
Stell cleanliness	Surface carbon. Excellent correlation with the reference Ford method.
Ceramic coatings	Engine antiwear coatings (*)
Zn coatings	All Zn coatings can be characterized (ISO norm in progress)
Organic coatings (Bonazinc ...)	Composition and behaviour of the coatings (*)
Phosphatations	Control of phosphatations
DLC coatings	Hard coatings used for instance in Formula 1
Corrosion studies	Identification of defects, studies of new processes (*)
Cataphoresis	Control of cataphoresis bathes and coatings (*)
Glasses	UV protection coatings on glasses (*)
Benchmarking	Comparative study of all parts of competitive cars (*)
Presence of Cr6	Environment issues
Painted car bodies	In depth analysis of a car body down to 200 microns (*)

(\*) indicates non conductive or possible non conductive layers. They count for more than 50 % of the work done in an automotive laboratory.